

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P455114

Luminaire Tested: **GALN-SA6B-730-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24059 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

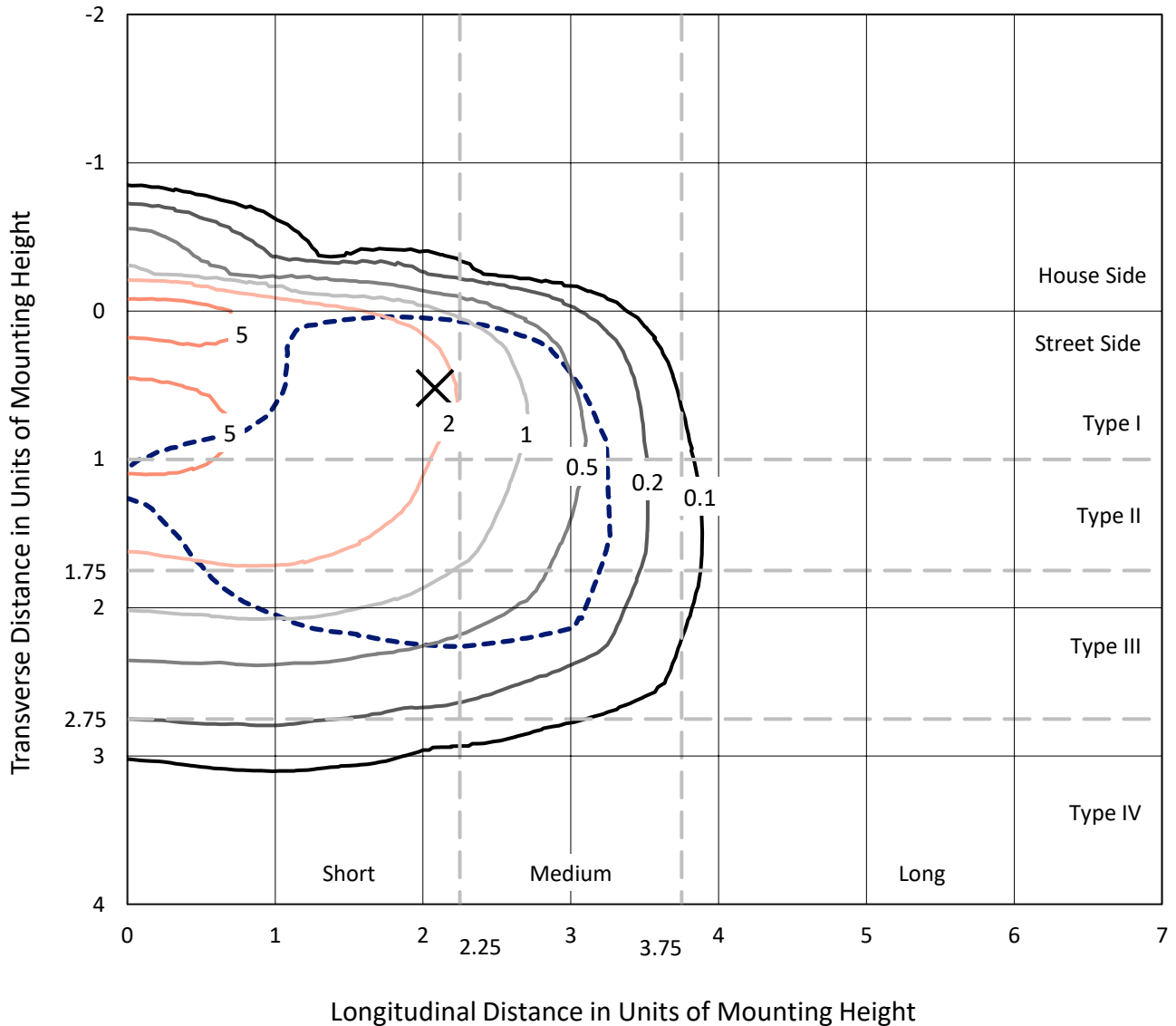
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455114
 CATALOG NUMBER: GALN-SA6B-730-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

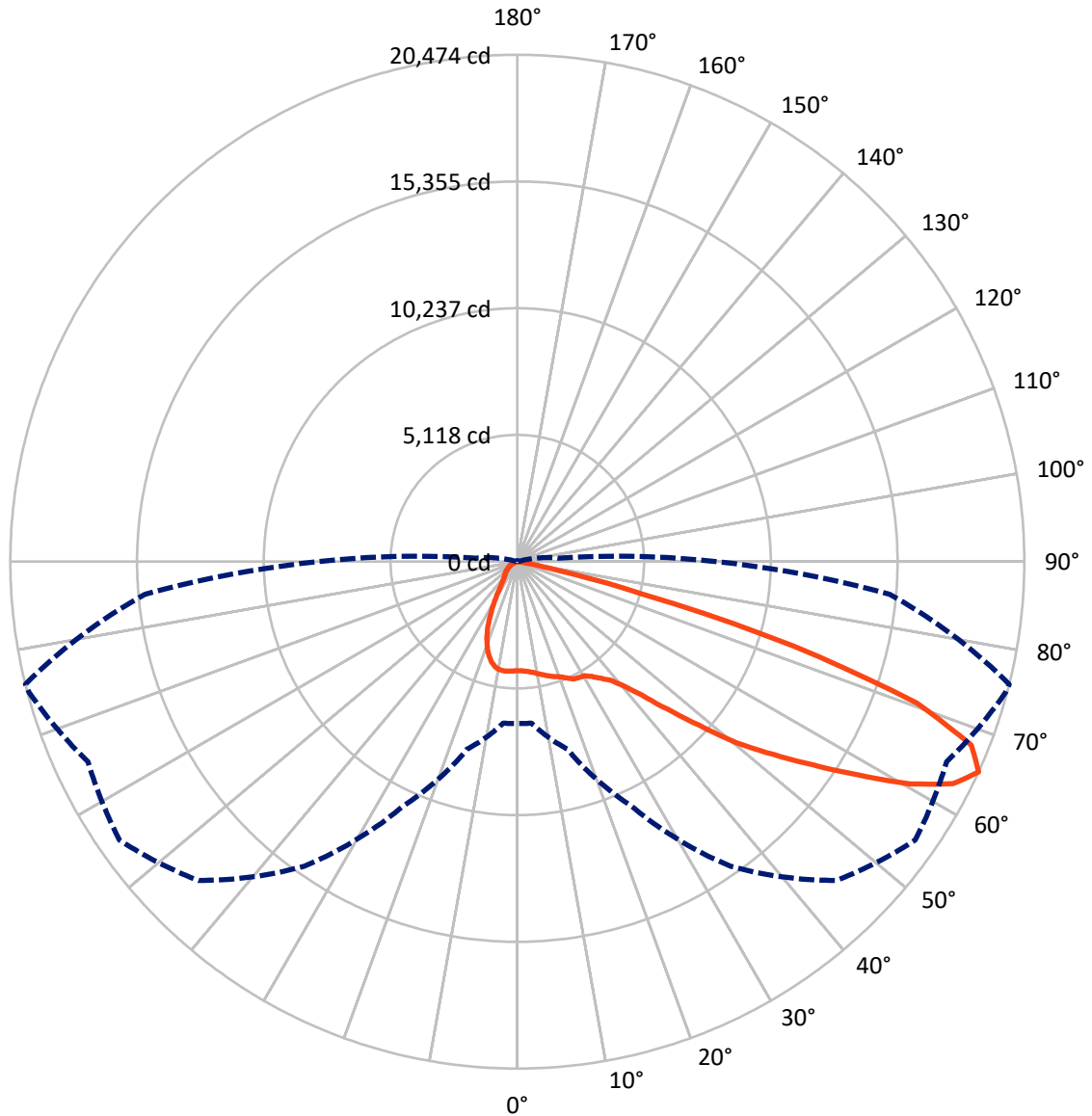
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Short - N/A

REPORT NUMBER: P455114
CATALOG NUMBER: GALN-SA6B-730-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P455114

CATALOG NUMBER: GALN-SA6B-730-U-T3R-HSS

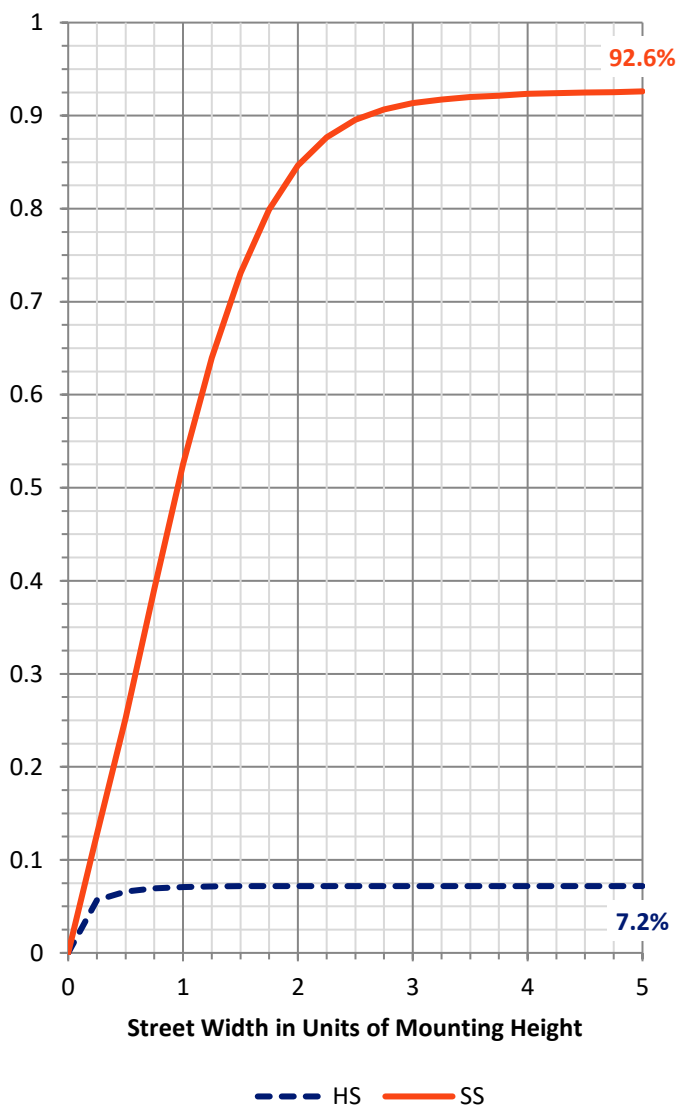
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1737.5	0.0	1737.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	22321.5	0.0	22321.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	24059.0	0.0	24059.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.5	1.5
10°-20°	807.2	3.4
20°-30°	1300.8	5.4
30°-40°	2261.8	9.4
40°-50°	3737.5	15.5
50°-60°	5773.6	24.0
60°-70°	7050.4	29.3
70°-80°	2675.8	11.1
80°-90°	89.3	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	24059.0	100.0
0°-180°	24059.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455114

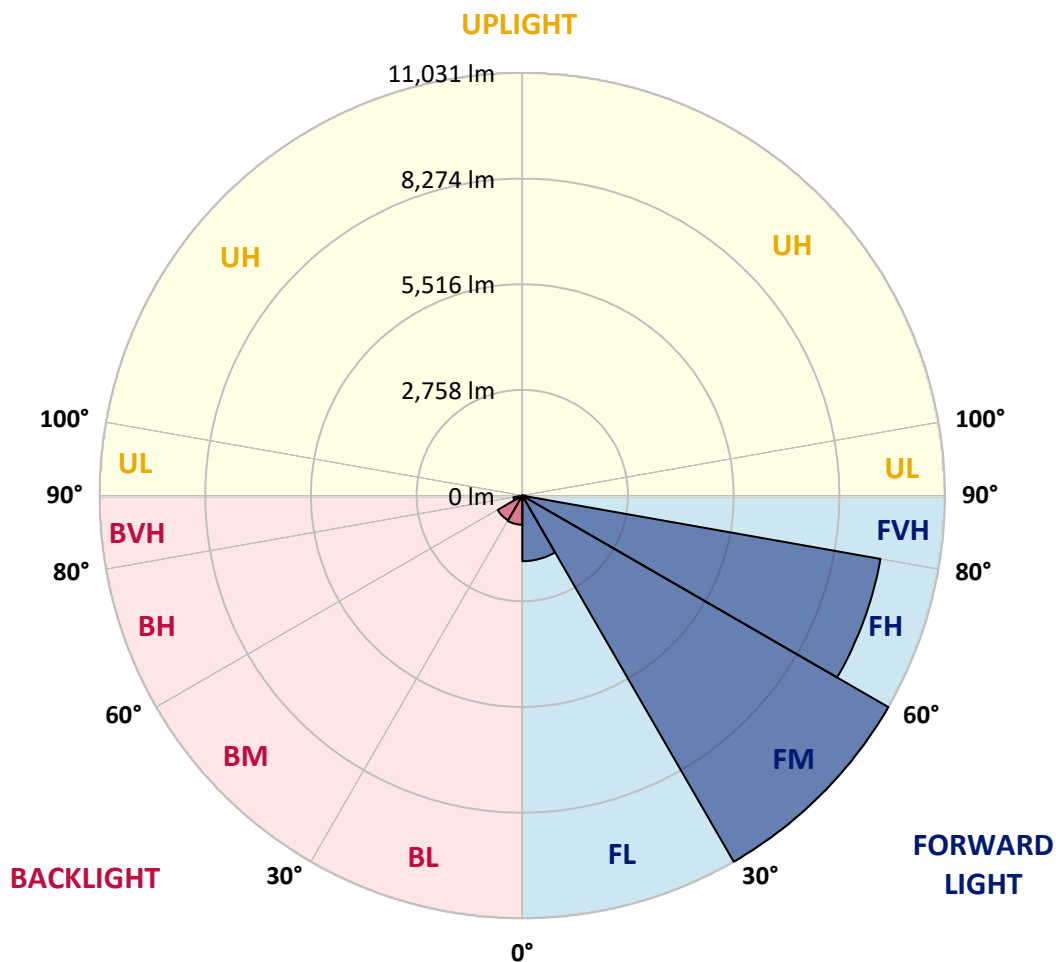
CATALOG NUMBER: GALN-SA6B-730-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1711.5	7.1			
FM (30°-60°)	11031.4	45.9			
FH (60°-80°)	9490.5	39.4			G4/12000
FVH (80°-90°)	88.1	0.4			G1/100
BL (0°-30°)	759.1	3.2	B2/1000		
BM (30°-60°)	741.4	3.1	B1/1000		
BH (60°-80°)	235.8	1.0	B1/500		G1/500
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





REPORT NUMBER: P455114

CATALOG NUMBER: GALN-SA6B-730-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4401.2	4401.2	4401.2	4401.2	4401.2	4401.2	4401.2	4401.2	4401.2	4401.2	4401.2
2.5°	4205.8	4207.5	4217.7	4243.2	4282.3	4314.5	4341.7	4385.9	4416.4	4419.8	4430.0
5°	3915.3	3895.0	3915.3	3981.6	4041.0	4131.1	4241.5	4351.9	4450.4	4457.2	4504.8
7.5°	3589.2	3606.2	3638.5	3706.4	3818.5	3956.1	4115.8	4312.8	4499.7	4516.7	4610.1
10°	3258.0	3295.3	3348.0	3451.6	3607.9	3786.3	4003.7	4285.7	4577.8	4601.6	4763.0
12.5°	2952.2	2969.2	3033.8	3173.0	3366.7	3618.1	3918.7	4270.4	4664.4	4693.3	4926.0
15°	2717.8	2739.9	2796.0	2921.6	3137.4	3460.1	3849.1	4265.3	4749.4	4790.1	5089.1
17.5°	2673.6	2687.2	2711.0	2796.0	2984.5	3334.4	3786.3	4263.6	4830.9	4880.2	5240.3
20°	2855.4	2843.5	2819.7	2811.2	2914.9	3237.6	3740.4	4277.2	4909.1	4965.1	5400.0
22.5°	3310.6	3325.9	3186.6	3021.9	2987.9	3222.3	3733.6	4341.7	5033.1	5099.3	5578.3
25°	4277.2	4160.0	3942.5	3548.4	3251.2	3315.7	3810.0	4494.6	5177.4	5250.5	5739.7
27.5°	5345.6	5309.9	4971.9	4323.0	3769.3	3512.8	3945.9	4611.8	5225.0	5299.7	5831.4
30°	6395.4	6437.8	6050.5	5333.7	4521.8	3878.0	4073.3	4656.0	5267.5	5345.6	5948.6
32.5°	7368.7	7419.6	7079.9	6369.9	5408.4	4509.9	4292.4	4827.5	5445.8	5525.7	6144.0
35°	8134.8	8141.5	7885.1	7319.4	6376.7	5277.7	4766.4	5128.2	5687.0	5780.4	6351.2
37.5°	8838.0	8827.8	8527.1	8039.6	7183.5	6040.3	5362.6	5474.7	5962.2	6059.0	6650.1
40°	9359.5	9366.3	9269.4	8810.8	7936.0	6745.3	5834.8	5799.1	6424.2	6575.4	7085.0
42.5°	9707.7	9770.5	9818.1	9585.4	8882.2	7613.3	6560.1	6493.9	7226.0	7351.7	7699.9
45°	9989.7	10101.8	10339.6	10327.7	9790.9	8678.3	7555.5	7419.6	8362.4	8496.6	8483.0
47.5°	10195.2	10309.0	10703.1	10940.9	10645.3	9711.1	8807.4	8690.2	9719.6	9865.7	9347.6
50°	10300.5	10436.4	10939.2	11399.5	11312.9	10706.5	10234.3	10241.1	11358.8	11499.7	10349.8
52.5°	10054.2	10230.9	11064.9	11893.8	12062.0	11659.4	11571.1	11795.3	12817.9	12938.5	11255.1
55°	9267.7	9490.3	10893.3	12315.1	12930.0	12783.9	13089.7	13431.1	14412.9	14491.0	12184.3
57.5°	8770.0	9006.2	10387.1	12673.5	13973.0	14197.2	14681.3	14931.0	16058.9	16257.6	13251.0
60°	8350.5	8535.6	9971.0	12749.9	15032.9	15926.4	16396.9	16655.1	18090.4	18219.5	14424.8
62.5°	7652.3	7864.7	9267.7	12216.6	15566.3	17310.8	18285.8	18170.3	19661.7	19751.7	15145.0
65°	6529.5	6548.2	7840.9	10876.3	15015.9	18209.3	19612.4	19128.3	20412.5	20473.6	15089.0
67.5°	4873.4	5053.4	6031.8	8549.2	12683.7	17441.6	20042.2	19153.8	19938.6	19768.7	13891.4
70°	3139.1	3276.7	4088.6	5928.2	9145.4	14555.6	18617.0	17840.7	17499.3	17122.2	11370.7
72.5°	1448.9	1625.6	2429.0	3387.1	5423.7	10368.5	15112.7	14494.4	12595.4	11664.5	7227.7
75°	631.9	676.1	1199.2	1787.0	2542.9	5483.2	9964.2	8997.7	5688.7	5196.1	2892.8
77.5°	385.6	414.5	628.5	958.0	998.8	2089.3	5367.7	3925.5	1758.1	1550.9	784.8
80°	261.6	293.9	456.9	501.1	341.4	582.6	2014.6	1048.1	355.0	339.7	168.2
82.5°	127.4	161.4	338.0	280.3	147.8	186.8	586.0	224.2	103.6	96.8	59.5
85°	18.7	32.3	190.2	183.5	66.2	44.2	103.6	56.1	35.7	34.0	27.2
87.5°	0.0	0.0	64.5	28.9	6.8	6.8	11.9	11.9	13.6	11.9	13.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P455114

CATALOG NUMBER: GALN-SA6B-730-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4401.2	4401.2	4401.2	4401.2	4401.2	4401.2	4401.2	4401.2	4401.2	4401.2	4401.2
2.5°	4435.1	4443.6	4411.4	4365.5	4316.2	4267.0	4197.3	4134.5	4097.1	4119.2	4064.8
5°	4515.0	4508.2	4423.2	4284.0	4098.8	3876.3	3655.5	3466.9	3405.8	3314.0	3303.8
7.5°	4625.4	4606.7	4426.6	4107.3	3689.4	3271.6	2863.9	2593.8	2439.2	2308.4	2311.8
10°	4780.0	4725.6	4387.6	3796.4	3108.5	2478.3	1958.5	1601.8	1447.2	1398.0	1358.9
12.5°	4939.6	4834.3	4278.9	3376.9	2420.6	1693.5	1190.7	973.3	878.2	847.6	844.2
15°	5082.3	4915.8	4088.6	2872.4	1759.8	1082.0	811.9	740.6	728.7	730.4	728.7
17.5°	5223.3	4980.4	3825.3	2337.3	1195.8	776.3	698.1	681.2	686.2	693.0	691.3
20°	5340.5	4994.0	3489.0	1783.6	845.9	681.2	655.7	652.3	657.4	662.5	662.5
22.5°	5467.9	5004.2	3089.8	1234.9	691.3	633.6	620.0	620.0	626.8	633.6	635.3
25°	5563.0	4948.1	2612.5	886.7	609.8	587.7	580.9	582.6	589.4	592.8	591.1
27.5°	5578.3	4790.1	2106.3	679.5	553.8	531.7	524.9	531.7	523.2	528.3	524.9
30°	5591.9	4589.7	1593.3	572.4	502.8	468.8	458.6	448.4	441.6	433.2	431.5
32.5°	5634.4	4353.6	1163.6	514.7	455.2	417.9	394.1	365.2	343.1	336.3	334.6
35°	5653.1	4069.9	854.4	468.8	412.8	372.0	329.5	288.8	256.5	244.6	253.1
37.5°	5724.4	3794.7	662.5	434.9	375.4	324.4	270.1	219.1	188.5	181.8	185.2
40°	5870.5	3495.8	555.5	406.0	343.1	280.3	214.0	164.8	144.4	137.6	135.9
42.5°	6104.9	3198.5	494.3	378.8	310.8	236.1	168.2	129.1	112.1	107.0	107.0
45°	6390.3	2913.2	451.8	349.9	276.9	190.2	132.5	103.6	93.4	90.0	90.0
47.5°	6765.7	2663.5	416.2	321.0	239.5	151.2	107.0	90.0	83.2	84.9	86.6
50°	7146.2	2478.3	377.1	288.8	197.0	124.0	91.7	79.8	78.1	79.8	79.8
52.5°	7433.2	2369.6	324.4	244.6	154.6	103.6	81.5	74.7	73.0	69.6	69.6
55°	7820.5	2345.8	258.2	198.7	122.3	86.6	73.0	67.9	62.8	59.5	57.8
57.5°	8318.2	2373.0	198.7	154.6	95.1	71.3	64.5	56.1	49.3	42.5	42.5
60°	8627.4	2311.8	154.6	118.9	69.6	57.8	49.3	40.8	32.3	27.2	25.5
62.5°	8528.8	2053.6	122.3	88.3	49.3	42.5	32.3	27.2	18.7	13.6	11.9
65°	8020.9	1657.9	98.5	61.2	35.7	25.5	17.0	17.0	8.5	1.7	0.0
67.5°	7020.5	1228.1	78.1	40.8	20.4	11.9	8.5	5.1	0.0	0.0	0.0
70°	5714.2	886.7	61.2	25.5	11.9	8.5	3.4	1.7	0.0	0.0	0.0
72.5°	3628.3	507.9	47.6	15.3	8.5	3.4	0.0	0.0	0.0	0.0	0.0
75°	1403.1	198.7	32.3	10.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	397.5	93.4	18.7	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	103.6	40.8	10.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	49.3	17.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.9	6.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)